for 10 minutes and deposited on denatured (70% formamide, 2X SSC at 70°C for 2 minutes)

chicken or turkey metaphases, mounted, sealed with rubber cement and incubated in a

humidified chamber at 37°C for 18 to 20 hours. The slides were washed in 50%

formamide/2X SSC at 42°C for 15 minutes and O.1X SSC at 60°C for 15 minutes. Blocking

was done using 2% blocking reagent (Boehringer Mannheim) and the signals were detected

using avidin-FITC (5 μg/ml, Vector labs) in 1% blocking solution. Slides were washed in 4X

SSC/0.1% TWEEN-20 (polyoxyethylene sorbitan monolaureate) for 15 minutes at 42°C,

stained for 10 minutes in propidium iodide (400 ng/ml in 2X SSC) and rinsed for 5 minutes

in 2X SSC/0.01% TWEEN-20. Slides were mounted in p-phenylenediamine-11 (PPD-11)

antifade and observed under a Zeiss Axioskop fluorescent microscope. --

Please amend the captioned paragraph beginning on line 13 of page 10 as follows:

-- **SEQUENCE 1** (43.Seq)

1   gatcactttc cctaatattc ttgtgtttct tgtttgttga cctgtaatgc

51   agttctgagt tttggaaagg aactaattaa gaccagagga gagataattt

101   tcttttatca aaaaacaaac aaacaaacaa aaaaacgaat tcttaccact

151   ttacaaaaat tttccatttt gaaggccagt acagccatag cattcatcta

201   cttttttgctt tggat (SEQ ID NO: 1) --

Please amend the captioned paragraph beginning on line 1 of page 11 as follows:

-- **SEQUENCE 2** (71.Seq)

1   gatcaggtgg cctgtagtag acaacaacaa caatggggtg ccctttgttg

51   ccttagtctc taactcgcac ccacacacac tttcaagttg cttgtggcca

101   ttcttcaggg acagttcttc acaatctatt cctttcctga tgtagaaggc

151 gtcacctcct cccctcctgc ctcgtttgtc ccttctaaac tgcaggtatt

201 agtattgata gctaaggtca agtcatggga accatctcac caggtttcag

251 tgttggcaac tatgttatgc tttcttagga gcatggtggt tccaactctt

301 ccctgcttat ttcccaagct gtgtgtgatg gtaggatagc attcaagtgg

351 gaggagccta tcggcttttt ggaggtactc ctaaatccct gatattcccc

401 tgattcccgt acttcttcct tgccaagggc ccgccaatgc atagttcaat

451 ttctcatgca gacgctaagg aaaggtggac cc (SEQ ID NO: 2) --

Please amend the captioned paragraph beginning on line 12 of page 11 as follows:

-- SEQUENCE 3 (80.Seq)

1 gatcgtatgt attttttttac ataggataga aaatggccaa taggaaataa

51 gacagtacag ctactaagaa agaaacacaa ttacacacac acacacacac

101 acacacacac acacatttga aaaacgcgct gcacagcagt gtgggtattt

151 tttcacaaga gagacacact ctacagtaca cagccagctc tactttgtcg

201 cacagtctca gtgtgtgttt gccaacagga cgcggttcac agggagatat

251 tgtcctcttg tgtgtgtgga gacacagaga cagag (SEQ ID NO: 3) --

Please amend the captioned paragraph beginning on line 1 of page 12 as follows:

-- SEQUENCE 4 (81.Seq)

1 gatcccctgg aggaagggca atggcaaccc actccagtat tcttgcctga

51 agaataccat ggtcagtttt gcctcctggg ctatagtcca tggggttgca

101 aagagtcagg catgactgag cgactctctc tctctctctc tctctctctc

151 acacacacac acacacacac acacacggcg tctctctctc tctctataca

201 tataggctgt gtgtctcgct attctcacat gagggaaact catatctagc

251 acgtggcaca aatattgttt gtggctctca caaaagacat gtgggcgcac

301 aaaggtcccc ccccggtgga tacancgcct tggttttta taacccaagc

351 ctgtg (SEQ ID NO: 4) --

Please amend the captioned paragraph beginning on line 10 of page 12 as follows:

-- **SEQUENCE 5** (131.Seq)

1 gatcacatat gtaaactagg gaattgcata ataagattaa atgtaggtgt

51 agaacgtggc atgaaggaag gtagaattag gtggtaccta tctcttctga

101 aacaaactga gaatcctact accaatcaac atattctaca taccacacac

151 acatttttttc tcgagtaaaa tataaactaa tgagaaactt ccctag (SEQ ID NO: 5) --

Please amend the captioned paragraph beginning on line 15 of page 12 as follows:

-- **SEQUENCE 6** (147.Seq)

1 gatcccaagc aacacatagn cagacaatca cacacacaca cacacacaca

51 cacacacaca cacacacaca cacatcctct ccccacaata catcccgaga

101 gggggggagag acactctctc tccctctcta taggggagac ccggagagct

151 ggctctgttg tctctctaca ccggacatac agtggagcac atctcacact

201 tgtgtctttg tctctctaca ccggacatac agtggagcac atctcacact

251 tgtgtctcta tctctccctg tccctgttga tccatctctc ttcacacatc

301 tctccagatc ttagcgctag agtctcctgt cttctctctg cgcaatttgt

351 gtgatagaga cacctgatat gttgtgtggg ggagacatct gtgtgtctct

401 gtgtcatccc agaggatttt tctctcccac acttagaggc cttctcaaga

451 gatgggaggt tttaatgggg tgtg (SEQ ID NO: 6) --

Please amend the captioned paragraph beginning on line 6 of page 13 as follows:

-- **SEQUENCE 7 (166.Seq)**

  1 gatcattctt ctgtttccca ttctaatggg aattctccac acacacacac

 51 acacacacac acacacacat cttcttcccc ttacatggaa aaaaatcctc

101 cacacccctg gacactgatt actctccctc ttcccagaga gagatc (SEQ ID NO: 7) --

Please amend the captioned paragraph beginning on line 10 of page 13 as follows:

-- **SEQUENCE 8 (196.Seq)**

  1 gatcccctag agaagggaat ggctactcac tccagtattc ttgcctggag

 51 aattccgtgg tcagaggagc ctggaaggct ataatccata gagtcgcaag

101 agtcagacag gactgagtga ctaacacaca catgcacaca cacacacaca

151 cacacacaca cttgctctag ggagaggcat agagatgtaa tctctcctaa

201 aatgggggtg gcgatggccc ctgcggccaa gtaatcgcca cacatgcgta

251 ttccccttaa gattgggtta ggcctccctt atgaggagag accagggaga

301 gaatgggctc tctctctctc tcactcccca accgagtaag tggtaaaaaa

351 ggttttcctg gattacaatt ttggtgttac agaattggaa aaaaatattt

401 ttggggctcc cccctcagtt ta (SEQ ID NO: 8) --

Please amend the captioned paragraph beginning on line 1 of page 14 as follows:

-- **SEQUENCE 9 (199.Seq)**

  1 ctagcaaaaa cacccccaca agttatgaaa acaacggctt aatatagtaa

 51 tgtgtgtgtg tgtgtgtgtg tgttgcacac cacagttttc tctgatactc

101 aaacctctct ctttctctac aggggccccc cataacacag cggctgagat

151 gtgtgacggg aaggcgtggc cttttacaca tttgtggtat ggtctgccaa

201 ggccccctat tgcccccccac aactacggag atacactagg ggcgacccgc

251 aggcgcgcga cccccaggtg gggccccgag (SEQ ID NO: 9) --

Please amend the captioned paragraph beginning on line 8 of page 14 as follows:

-- SEQUENCE 10 (204.Seq)

1 ctttaggagg ttctctcgag taagcttttt ggatttcttt ggttcccaag

51 catcacatgg tacaggcagt cacacacaca cacatacaca cacacacaca

101 cacacacaca cactcctctc cccacaatac ataccgagag gggggagaga

151 cactctctct ccctctctat aggggggagcc ccacagagct ggctctgttg

201 tctctctcca ccggacatac agtggagcac atctcacact tctgtctcta

251 tctctccctg cccctgtgac atccatctct cttcacacaa tctcacccag

301 gatcttagcg ctagagaccc cctgtccttc ttctcctggg gaaatttttt

351 gtggataaga gacacccgat atattggtgt gggggagaac atcttgtgag

401 gtctctgttg tgccatccca acaggaattt ttatctcccc cacaattaga

451 ggcccctcct caagagtgtg tgagggtt (SEQ ID NO: 10) --

Please amend the captioned paragraph beginning on line 1 of page 15 as follows:

-- SEQUENCE 11 (235.Seq)

1 gatcacagat gtatgtattt ttttacatag gatagaaaat ggacaatagg

51 aaataagaca gtacagctac taagaaagaa cccacattta cacacacaca

101 cacacacaca cacacacaca agtgtttaat ccgctgcaca gcattgtgga

151 cattttaca caagagagac acactctaca gtttgcgccc agctctag (SEQ ID NO: 11) --

Please amend the captioned paragraph beginning on line 6 of page 15 as follows:

-- SEQUENCE 12 (249.Seq)

1 gatcattctt ctgtttccca ttctaatgga attctccaca cacacacaca

51 cacacacaca cacacactct tctttctcct gacatggaaa aatctcccccc

101 acaccccggg acactgattt ctctccctct ccccaacact gtgagcaaga

151 ggagtttatt ttgtgtgtgt cactcttcca gggagagaga gatc (SEQ ID NO: 12) --

Please amend the captioned paragraph beginning on line 11 of page 15 as follows:

-- SEQUENCE 13 (258.Seq)

1 ctaggcatcg gttgggaggt ggtgagtaat tacttgtctg acattagtcc

51 tgtaacattg ggtgtgtgtg tgtgtgtgtg tgtgtattcc ccttgggaat

101 tggttttctc aaccacaagt tcttcttttt tttttttctc ccccctttttc

151 ttctgaaaat aagtacttgg ggggtttccg ccccccccgg taaataaaat (SEQ ID NO: 13) --

Please amend the captioned paragraph beginning on line 16 of page 15 as follows:

-- SEQUENCE 14 (290.Seq)

1 ctagtggctc ccaagcaaca catagccaga caacacacac acacacacac

51 acacacacac acacacacac acacacactc ctctccccac aatacatccc

101 gagaggggg agagacactc tctctccctc tctatagcgg gagccccaca

151 gagctggctc tgctgtctct ctacaccgga catacagtgg agcacatctc

201 acattcgtgt ctctatctct ccctgcccct ggtgacatac atctctcttc

251 acacatctca ccaggtctga gcgctagagt ctcctgtctt ctctctgcgc

301 aatatttgtg atagagacat ctgatatatt gtgtgtggga gacatcttgt

351 gagtctctgt gtgcatccca gaggattttt atctccccac actag (SEQ ID NO: 14) --

[Please amend the captioned paragraph beginning on line 6 of page 16 as follows:]

-- **SEQUENCE 15** (309.Seq)

1 gatccatgaa aactttccga gttgtattgt ctaggtgaaa acacacacaa

51 acacacacac acacacacac acacaacagg gagatgagtc ttgcaagaga

101 ataggggaga gttatgtcac caagtctggt gaggtatata gcgtataggg

151 agccaacatg tcagacatct gatgtgctaa gattaacatt ttattttatt

201 taatgtgtga gatctcatat agcggctctt cttatatatg acgtctcgca

251 atgtctcttt atgtgtgtta ttctctgagc ccctgggaga tatctgtcat

301 cagagagaag agacatacac atacaggggt tatatatttt ctccctgtgt

351 gtggagatgg agggtatttt ggacaagctc aacactcatt ggctcccaga

401 gagagaaaag gagcaactgt tgcacccggg gctctgtagc tgggatc (SEQ ID NO: 15) --

[Please amend the captioned paragraph beginning on line 15 of page 16 as follows:]

-- **SEQUENCE 16** (341.Seq)

1 caattgggta catctacctg gtaccccacc cgggtggaaa atcgcatggg

51 cccgcggcgg ttctaggaag tactctcgag aagcttttgg gttctttggg

101 tcccaagcag cacatggaca ggcaatcaca cacacacaca cacacacaca

151 cacacacaca cacacacaca ctcctctccc cacaatacat cccgagaggg

201 gggagagtca ctctctctcc ctctctatag ggggcgcccc taagagctgg

251 ctctgttgtc tatctacacc gcacatacaa tggagcacaa ctcacactag (SEQ ID NO: 16) --

[Please amend the captioned paragraph beginning on line 2 of page 17 as follows:]

-- SEQUENCE 17 (398.Seq)

1 gatcaaagca tggaggtcat gccaggcact gaacaaaatg gtagagagtg

51 attctatgac tgactaagac ctcatgcaac aacaagtgaa gagtcacaac

101 tgcaaacaga agtacaactt agcaaatcct attttcagga aacactaaac

151 cgtaatactt gcacgatttt ttctttaata cagtaataat tcttttagaa

201 tttggatata tcttttaaga tacatatttg tctaaatacc aaggcaggat

251 atgagcataa aatagctaag gttagctatg gtgttatatt taagaagacc

301 acagagcaat aggagcatac ttttcttggg gtagaaggggg cccttaaagg

351 tcacctag (SEQ ID NO: 17) --

[Please amend the captioned paragraph beginning on line 11 of page 17 as follows:]

-- SEQUENCE 18 (420.Seq)

1 ctagccacat cctataactc cactccacct ttaatcctga tttctgtgtc

51 tcttctctaa cctctatggc ctttctctaa agttccccaa tatcaacaat

101 ccttttcccc actgggacct ccagtttatt gattctacca tgtcactatc

151 catggtcaac cacttgtggt attataggat gtcgcgtgtg tgtgtgtgtg

201 tgtgtgcatg tgtgtgtgct tgggtgtcag agagttccaa tctgggggac

251 ctatggtttg taaacaacag gtctcttgcc aaggaagat (SEQ ID NO: 18) --

[Please amend the captioned paragraph beginning on line 18 of page 17 as follows:]

-- SEQUENCE 19 (435.Seq)

1 ctagcgctcg tgcccctgca gttcgacact cagtggctcc tccacacaca

51 cacacacaca cacatcaata tatatataga tagatagata gatagaggag